WHAT IS CLAIMED IS:

1	1.	A deformable mirror comprising:
2		a vertical comb drive; and
3		a reflective surface attached to said vertical comb drive

- The deformable mirror according to claim 1, further comprising a spring for biasing said vertical comb drive to maintain said reflective surface in an original position absent application of a voltage to said vertical comb drive.
- The deformable mirror according to claim 1, wherein said vertical comb drive comprises a first array of stationary elements and a second array of moving elements correspondingly interspersed with said first array, said reflective surface being attached to said second array.
- 1 4. The deformable mirror according to claim 3, further comprising 2 a layer covering tops of elements of said second array.
- 1 5. The deformable mirror according to claim 4, a spring for suspending said first array relative to said second array, said spring being attached to said layer.
- 1 6. The deformable mirror according to claim 3, wherein said stationary elements and said movable elements are circular.

1 The deformable mirror according to claim 3, wherein said 7. 2 stationary elements and said movable elements are planar. 1 8. The deformable mirror according to claim 4, wherein said layer 2 is attached directly to said reflective surface. 9. 1 The deformable mirror according to claim 4, further comprising 2 a post attaching said layer to said reflective surface. The deformable mirror according to claim 9, wherein said post 1 10. 2 is in a center of said reflective surface. The deformable mirror according to claim 3, wherein voltage is 1 11. 2 applied to each stationary element of said first array individually or each moving 3 element of said second array individually. 1 12. The deformable mirror according to claim 3, wherein said vertical 2 comb drive comprises an array of vertical comb actuators. The deformable mirror according to claim 12, means for 1 13. 2 individually providing voltage to each actuator of said array. 1 14. The deformable mirror according to claim 12, further comprising 2 springs for individually suspending each of said second array of each actuator 3 in said array.

The deformable mirror according to claim 14, further comprising

1

2

15.

an anchor for supporting said springs.

-16- Attorney Docket No. 2119-107P

1	16. The deformable mirror according to claim 1, wherein said vertical		
2	comb drive comprises plurality of cavities and teeth interdigitally mounted with		
3	said cavities, said reflective surface being attached to said teeth.		
1	17. The deformable mirror according to claim 16, further comprising		
2	a top layer between the teeth and the reflective surface.		
1	18. The deformable mirror according to claim 16, further comprising		
2	a conductor for individually connecting each tooth of said teeth to a voltage		
3	source.		
1	19. A method of deforming a mirror comprising:		
2	attaching the mirror to a vertical comb actuator; and		
3	applying a voltage to the vertical comb actuator.		
_			
1	20. The method according to claim 19, wherein said vertical comb		
2	drive comprises an array of vertical comb actuators and said applying		
3	individually applies voltage to said vertical comb actuators.		